REMARKS

New Claims 119 and 120 are directed to allowable subject matter as kindly suggested by the Examienr. For Claim 119, see suggestion ii at page 3 of the December 14, 2004, fice Action. For Claim 120, see the paragraph bridging pages 19 and 20 of the Office Action dated June 20, 2003. No new matter has been entered.

Applicants respectfully request reconsideration of the outstanding rejection over Guenzer, Kaushik and JP '070, made originally against claims then pending in the June 20, 2003, Official Action. The claims have changed substantially from that date.

Present Claim 115 reads:

A semiconductor structure comprising:

- a) a monocrystalline Group IV substrate:
- b) an amorphous oxide material in contact with the monocrystalline substrate;
- c) a monocrystalline metal oxide layer selected from the group consisting of alkaline earth metal titanates, alkaline earth metal zirconates, alkaline earth metal hafnates, alkaline earth metal tantalates, alkaline earth metal ruthenates, alkaline earth metal niobates, alkaline earth metal vanadates, alkaline earth metal tin-based perovskites, lanthanum aluminate, lanthanum scandium oxide, gadolinium oxide and mixtures thereof contacting the amorphous oxide material;
 - d) a metal or metal oxide capping layer in contact with said monocrystalline metal oxide layer;
 - e) a compound semiconductor template layer in contact with said capping layer; and
 - f) a monocrystalline compound semiconductor layer in contact with said template layer.

In this regard, the references Guenzer, Kaushik and JP '070 do not suggest at least the following structure:

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d) a metal or metal oxide capping layer in contact with said monocrystalline metal

oxide layer;

e) a compound semiconductor template layer in contact with said capping layer; and

f) a monocrystalline compound semiconductor layer in contact with said template

layer.

While applicant disagrees that any portion of, e.g., Claim 115 is disclosed or suggested by

this combination of references, certainly the three applied references fail to disclose elements

d), e), and f) as noted above. Compare Claim 1 with Claim 115.

With regard to Claim 118, note the limitations:

a first semiconductor component, at least a portion of which is formed in said

monocrystalline silicon substrate; and

a second semiconductor component, at least a portion of which is formed in said

compound semiconductor layer, said second semiconductor component being electrically

coupled to said first semiconductor component,

which similarly are absent from the collection of Guenzer, Kaushik and JP '070.

Finally, and with respect to the double patenting rejection, applicants traverse this

rejection, but are currently formulating the possibility of filing Terminal Disclaimers without

prejudice.

Respectfully submitted,

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